



## MODEL LST100 / LST100+ DIGITAL WALL SWITCH TIMER INSTALLATION & OPERATING INSTRUCTIONS

### Introduction

The LST100 / LST100+ can replace your regular or 3-way switch (where two switches control the same device) to control a light or any device plugged into an outlet with a load up to 15 Amps the maximum rating on the timer label.

The LST100 / LST100+ also has an exclusive manual On-Demand Delayed OFF mode that enables the user to leave the room while the light is ON and the timer automatically shuts the load OFF after a preset amount of time without interfering with programmed AUTOMATIC controls.

The LST100 / LST100+ timer can control CFL & LED bulbs, incandescent lights, fluorescent lights, flood lights, stereos, fans and motors.

You will need to use a Decorator style wall plate with this timer which is not supplied.

The timer must be mounted onto a standard single or multi-ganged electrical box.

**Read wiring instructions carefully and follow guidelines applicable to your installation.**

**WARNING:** TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

**WARNING:** IF YOU ARE UNSURE ABOUT ANY PART OF THESE INSTRUCTIONS CONTACT A QUALIFIED ELECTRICIAN.

**WARNING:** TO AVOID FIRE, SHOCK OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE WIRING!

**WARNING:** DO NOT EXCEED THE 625 WATT INCANDESCENT RATING OF THIS DEVICE.

**CAUTION:** USE THIS DEVICE WITH COPPER OR COPPER CLAD WIRE. WITH ALUMINUM WIRE USE ONLY DEVICES MARKED CO/ALP OR CU/AL.

### Installation Instructions

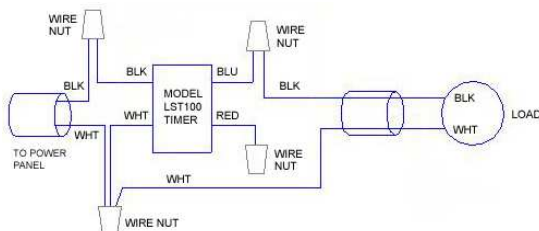
Single Switch or 3-way to replace an existing switch:

1. **TURN OFF POWER** by REMOVING FUSE or turning the CIRCUIT BREAKER OFF.
2. Remove the existing wall switch.

#### Single Switch (Single Pole Installation):

3. Connect the black building wire from the Main Power Panel to the black wire from the timer, using the wire nuts provided. Connect the blue wire from the timer to the black wire going to the load. Connect together the white wire from the main power cable to the white wire from the timer and the white wire to the load.

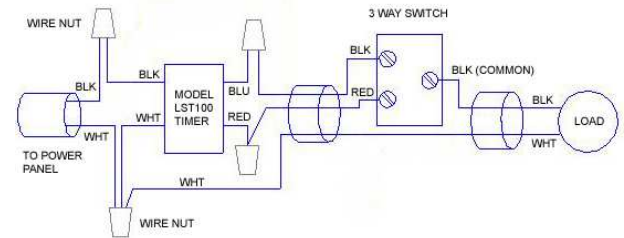
**THE RED WIRE IS NOT USED FOR SINGLE SWITCH INSTALLATIONS.** Cap the red wire with a wire nut. BE SURE that ALL the WIRE NUTS are TIGHT and SECURE.



#### 3-way Switch Installation:

4. A three way switch has three wires connected to it. One of the wires is "common" (the terminal has a different colored screw or there are markings on the old switch). Connect the Black wire from the timer to

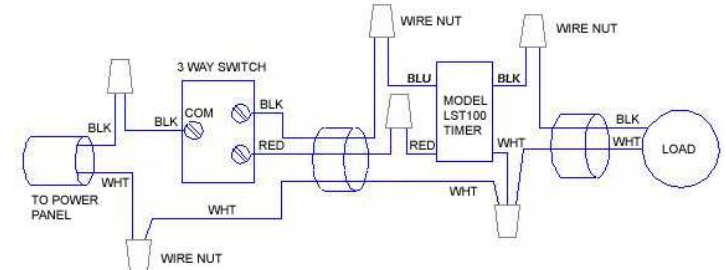
the common wire. Connect the other two wires to the Blue and Red wires from the timer (it doesn't matter which goes to which.)



Connect together the white wire from the main power cable to the white wire from the timer and the white wire to the load.

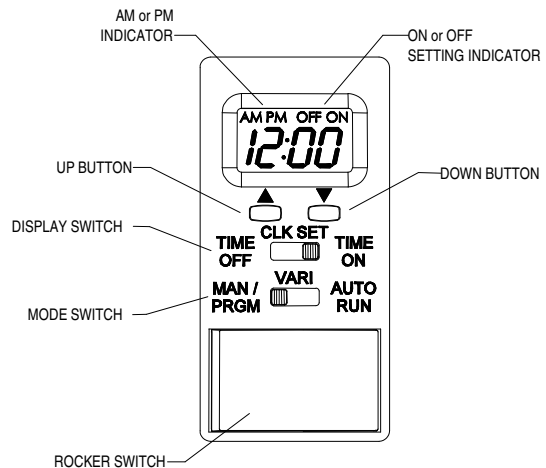
5. Tuck the wires into the wall box leaving room for the timer. BE SURE that ALL the WIRE NUTS are TIGHT and SECURE.
6. Using the screws provided, mount the timer securely to the wall box then install the wall plate.
7. Return the power to the circuit at the service panel. The display starts flashing "12:00 AM" see Operating Instructions to program the device.

#### Alternate 3-way Switch Installation:



8. For alternate 3-way Switch Installation, connect each wire as shown above.
9. Tuck the wires into the wall box leaving room for the timer. BE SURE that ALL the WIRE NUTS are SECURE.
10. Using the screws provided, mount the timer securely to the wall box then install the wall plate.
11. Return the power to the circuit at the service panel. The display starts flashing "12:00 AM" see Operating Instructions to program the device.

### Controls



### Operating Modes

The LST100/LST100+ has 4 operating modes. The Mode switch determines which mode you are in

1. **MAN / PRGM** (Manual / Program) this mode allows the setting of the Clock time and the Timer ON and OFF times. In this position the timer is disabled.
2. **VARI** (Variable) in this mode the timer is enabled and the ON and OFF time settings will be altered plus or minus 15 minutes to confuse possible intruders.
3. **AUTO RUN** (Automatic Run) in this mode the timer ON and OFF settings are enabled as programmed.
4. **Delayed OFF Mode.** See **Operation of Delayed OFF Mode** below. The position of the Mode switch is irrelevant.

## **Rocker Switch**

The rocker switch at the base of the unit will override any current setting. If the device is ON, the switch will turn it OFF, if OFF, it will turn the device ON.

If the device is in Delayed OFF mode and the light is ON, the switch will turn the light OFF.

## **Set Clock time**

**NOTE - The clock time must be set first or you can not set the timer ON or OFF times.**

1. Position the Display Time slide switch to the Middle position of CLK SET (Clock Set).
2. Position the Operating Mode slide switch to Left position of MAN/PRGM (Manual / Program)
3. Depress the UP or DOWN button and hold for 2 seconds, the time will begin to scroll slowly in the direction you have selected. After 10 seconds, the time will scroll rapidly. There is an AM / PM indicator that will appear to indicate morning or evening.

## **Reset**

Holding down both the UP and DOWN buttons simultaneously for 5 seconds will reset the CLOCK time. The Timer programmed times will not be reset; they are stored in solid state memory indefinitely.

**Note:** During a power failure the LCD screen display will be blank. When the power is restored the Clock time will be re-displayed.

## **Set Timer ON / OFF times**

Setting the timer ON and OFF times is only required one time. Once set up the programmed times are stored in solid state memory and need never be programmed again. Even if you encounter a power failure the timer times will not be lost.

Timer ON / OFF:

1. Position the Display Time slide switch to the Right position of TIME ON.
2. Position the Operating Mode slide switch to Left position of MAN/PRGM (Manual / Program)
3. Depress the UP or DOWN button and hold for 2 seconds, the time will begin to scroll slowly in the direction you have selected. After 10 seconds, the time will scroll rapidly. There is an AM / PM indicator that will appear to indicate morning or evening.
4. Position the Display Time slide switch to the Left position of TIME OFF.
5. Position the Operating Mode set slide switch to Left position of MAN/PRGM (Manual / Program)
6. Depress the UP or DOWN button and hold for 2 seconds, the time will begin to scroll slowly in the direction you have selected. After 10 seconds, the time will scroll rapidly. There is an AM / PM indicator that will appear to indicate morning or evening.
7. Position Operating Mode slide switch to the VARI or AUTO RUN position to enable the timer.

## **Operation of Manual Delayed OFF Mode:**

The Model LST100 / LST100+ Digital Wall Switch Timer is capable of leaving the light or load ON while leaving a room or building and automatically turning the light OFF after a factory pre-set amount of time after 10 minutes without user programming. This function does not interfere with pre-programmed times or cycles.

**NOTE - The clock time must be set first or you cannot use the Delayed OFF mode. If the Timer is in an automatic ON cycle, the Delayed OFF mode will not function.**

1. The manual Delayed OFF mode is activated by ANY two consecutive transitions of one (1) second or less of the rocker switch. The position of the Display switch or Mode switch is irrelevant. i.e., If the load is ON, turn the Rocker switch OFF then ON or if the load is OFF, then turn the Rocker switch ON then OFF quickly.
2. The display will show a factory pre-set count down value of ten (10) minutes for the count down cycle. The ON indicator will turn on, the AM/PM indicators will turn off, the load will turn ON, and the time will start decrementing at one (1) minute intervals. At the end of the count down cycle, the load will turn OFF.

3. The count down value can be changed at any time by pressing the UP or DOWN buttons. A maximum value of sixty (60) minutes or a minimum value of one (1) minute can be set. The Delayed OFF can be stopped before the end of the cycle by moving the rocker switch to the other position, or by moving the remote 3-way switch (if wired) to the other position.

## **Technical Specifications:**

Model: LST100 / LST100+

Supply: 110 - 125 VAC, 60 Hz, Neutral Line Required

Load: 15 Amp Resistive, 5 Amp Inductive,  
625 Watts Incandescent, 1/2 HP Motors

Approvals: ETL CUS Listed, Conforms to UL STD 60730-1A & 60730-2-7,  
Certified to CAN/CSA E60730-1 & E730-2-7,  
Complies with FCC Part 15, Class B Requirements

Surge Protection: Self-protecting against 1000V Transient Voltage Spikes

Storage Temperature: -4°F to +158°F (-20°C to +70°C )

Operating Temperature: +14°F to +131°F (-10°C to +5 °C)

5% - 95% Relative Humidity, Non-Condensing

Memory Backup: Real Time is protected against power failure by internal battery. The screen is blank during a power outage. Programmed Times are permanently stored in system memory.

## **IMPORTANT NOTES:**

1. Separate dimmers and photoelectric switches cannot be used in combination with your timer.
2. It is recommended that your timer not be used with PAR or "R" type outdoor flood lamps or lamps higher than 150 watts, since currents generated during lamp burn-out could damage the timer.

## **Warranty:**

### **LIMITED ONE (1) YEAR LIMITED WARRANTY**

If within one (1) year from the date of purchase, this product fails due to a defect in material or workmanship, Swylite Corporation will repair or replace it, at its sole option, free of charge. This warranty is extended to the original household purchaser only and is not transferable. This warranty does not apply to: (a) damage to units caused by accident, dropping or abuse in handling, acts of God or any negligent use; (b) units which have been subject to unauthorized repair, opened, taken apart or otherwise modified; (c) units not used in accordance with instructions; (d) damages exceeding the cost of the product; (e) sealed lamps and/or lamp bulbs, LED's and batteries; (f) the finish on any portion of the product, such as surface and/or weathering, as this is considered normal wear and tear; (g) transit damage, initial installation costs, removal costs or reinstallation costs.

**SWYLITE CORPORATION WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY MODIFIED TO EXIST ONLY AS CONTAINED IN THIS LIMITED WARRANTY, AND SHALL BE OF THE SAME DURATION AS THE WARRANTY PERIOD STATED ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.**

This warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased, or (b) mailing the product, along with proof of purchase, postage prepaid to the authorized service center listed below. This warranty is made by: Swylite Corporation, 1025 South Semoran Blvd., Suite 1093, Winter Park, Florida, 32792 / T: (407) 673-6544 <http://www.Swylite.com>

Please be sure to wrap the product securely to avoid shipping and handling damage.

### **CALIFORNIA PERCHLORATE ADVISORY**

"Perchlorate Material – special handling may apply, See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)."



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